

# VERGE CEILING 24VDC PLASTER-IN LED SYSTEM

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 10.06.21



## DESCRIPTION

Verge Ceiling is an innovative design that comes from the family of Plaster-in 24VDC systems pioneered by PureEdge that recesses within 5/8" drywall, without joist modification. Continuing to redefine the relationship between lighting, architecture and interior design, this visionary and highly Efficient system elegantly Highlights ceiling Perimeters while emitting smooth and continuous ambient illumination. Field-cuttable, Verge Ceiling is ordered in 1' increments up to 40', the slim plaster-in aluminum extrusion has a 4" paintable backer plate. Our Designer-grade High **CRI** Color Rendering LEDs are available in many Color Temperatures: Static white 2200K-5700K, Warm Dim (**27D** or **30D**) and, Dynamic/Tunable White (**2K6K** or **27K6**) as well as multiple wattage options. This plaster-in LED system brings together a Modern and Dynamic appearance to Residential and Commercial environments, offering unlimited creativity, and empowering you to design One-of-a-kind spaces every time. Remote Power supplies are required and sold separately. Coordinate installation with electrical and drywall contractors. Includes a 5-year pro-rated warranty. For custom quotes and layout assistance, send drawings to [design@PureEdgeLighting.com](mailto:design@PureEdgeLighting.com). Designed by Gregory Kay.

## REMOTE POWER SUPPLIES\*, DIMMERS & CONTROLS (SOLD SEPARATELY)

- Electronic Low Voltage Dimming (**ELV**)<sup>†</sup>
- Uni Driver: Universal dimming (**ELV, 0-10V, TRIAC**)
- 0-10 Volt (**0-10**) Dimming
- Dynamic Color Changing (**DMX**)
- Lutron Hi-Lume<sup>®</sup>

\*In-Wall Mounting Kits available for select Power Supplies

\*\*Dynamic/Tunable White Requires two dimmers (one for each color temperature) or use our proprietary Tunable White Controller CDMX-1

†With N-Lite Dimming Do Not use ELV power supplies, use only 0-10 volt or Uni drivers power supplies

## MAXIMUM LENGTHS BEFORE RE-FEEDING

- 2WDC, 2.5 watts per foot - 40'
- 5WDC, 4.4 watts per foot - 20'
- 7WDC, 7.5 watts per foot - 12'

## DESIGN NOTE

Verge Ceiling can be installed on a single surface such as the Perimeter of the ceiling accentuate or highlight Coves and other Architectural elements. Ambient and harmonious, the plaster-in LED system blends into 5/8" thick drywall to enhance the contemporary aesthetic of interior spaces. Verge offers unsurpassed precision and flexibility that transforms spaces into thoughtful and refined works of art.

## LAMP

- 7 Static White Color Temperatures **22K-57K**
- Warm Dim: **27D** and **30D** dim down to 1900K, resembling incandescent light sources
- Dynamic/Tunable White: **2K6K** and **27K6** allow for independent control of color temperature and dimming
- Average life: 50,000 hours

## INCLUDED COMPONENTS

Junction Box, Adjustable Mounting Bars, Backer Plate, Verge Ceiling Channel(s), Drywall Screws, LED Soft Strip, and Lens(es)

## APPLICATIONS

Indoor damp or dry locations only. Ideal for Ceiling Perimeters and outlining Architectural Elements in Residential, Commercial, Retail, Education, or Healthcare Institutions and Hospitality environments.

## COMPLIANCE

ETL, Class 2, Damp Location, Made in USA. **1-hour fire rating uses Two pieces of Type X Gypsum board, for 2-Hour fire rating use Three pieces of Type X Gypsum board.**

Use our Configurator to see List Price, Complete Ordering Code and Overall Length. [Verge Ceiling](#)

**PureEdge** is the Original Designer of 5/8" Drywall Products, Backed by Over 30 Years of Precision Manufacturing and Design.

| System             | Watts Per Foot                                                                                                                                    | Length in Feet                                                 | Color Temperature                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VGCE</b>        | <b>2WDC</b>                                                                                                                                       | <b>10FT</b>                                                    | <b>27K</b>                                                                                                                                                                                                                                                                                                                                                                                                 |
| VGCE Verge Ceiling | <b>2WDC</b> Stomp Strip, 2.5 Watts (40 ft Max)<br><b>5WDC</b> Stomp Strip, 4.4 Watts (20 ft Max)<br><b>7WDC</b> Stomp Strip, 7.5 watts (12ft Max) | <b>1-40FT</b> 2WDC<br><b>1-20FT</b> 5WDC<br><b>1-12FT</b> 7WDC | <b>22K</b> 2200K Amber White<br><b>24K</b> 2400K Very Warm White<br><b>27K</b> 2700K Incandescent White<br><b>27D</b> 2700K Warm Dim (5W Only)<br><b>30K</b> 3000K Warm White<br><b>30D</b> 3000K Warm Dim (5W Only)<br><b>35K</b> 3500K Neutral White<br><b>40K</b> 4000K Cool White<br><b>57K</b> 5700K Daylight White<br><b>2K6K</b> Tunable White 2000K-6500K<br><b>27K6</b> Tunable White 2700K-6500K |

| PROJECT | FIXTURE TYPE | DATE |
|---------|--------------|------|
|---------|--------------|------|

# VERGE CEILING 24VDC

## PLASTER-IN LED SYSTEM

REV 10.06.21

### LUMEN DATA Lumen Data for Verge Ceiling 24VDC Clear Lens

| CLEAR FROSTED LENS      |     |                |     |     |     |     |     |                |     |     |      |     |      |     |     |     |                |     |     |     |     |     |     |  |  |
|-------------------------|-----|----------------|-----|-----|-----|-----|-----|----------------|-----|-----|------|-----|------|-----|-----|-----|----------------|-----|-----|-----|-----|-----|-----|--|--|
| WATTS PER FOOT          |     | 2W (2.5 watts) |     |     |     |     |     | 5W (4.4 watts) |     |     |      |     |      |     |     |     | 7W (7.5 watts) |     |     |     |     |     |     |  |  |
| COLOR TEMPERATURE       | 22K | 24K            | 27K | 30K | 35K | 40K | 57K | 22K            | 24K | 27K | 27D* | 30K | 30D* | 35K | 40K | 57K | 22K            | 24K | 27K | 30K | 35K | 40K | 57K |  |  |
| LUMENS PER FOOT (lm/ft) | 97  | 97             | 98  | 102 | 117 | 123 | 130 | 178            | 178 | 180 | 188  | 188 | 191  | 216 | 227 | 240 | 276            | 276 | 278 | 290 | 334 | 351 | 371 |  |  |
| LUMENS PER WATT (lm/w)  | 39  | 39             | 39  | 41  | 47  | 49  | 52  | 41             | 41  | 41  | 39   | 43  | 40   | 49  | 52  | 55  | 38             | 38  | 38  | 40  | 46  | 48  | 51  |  |  |
| CRI                     | 92+ | 92+            | 92+ | 92+ | 92+ | 92+ | 92+ | 92+            | 92+ | 92+ | 94+  | 92+ | 94+  | 92+ | 92+ | 92+ | 92+            | 92+ | 92+ | 92+ | 92+ | 92+ | 92+ |  |  |

\*27D, 30D - Warm Dim (4.8 Watts)

|                         | CLEAR FROSTED LENS  |     |     |     |     |     |     |     |     |                     |     |     |     |     |     |     |                     |     |     |     |     |     |     |     |     |
|-------------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|---------------------|-----|-----|-----|-----|-----|-----|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| WATTS PER FOOT          | 2K6K 2W (2.5 watts) |     |     |     |     |     |     |     |     | 27K6 2W (2.5 watts) |     |     |     |     |     |     | 2K6K 5W (4.4 watts) |     |     |     |     |     |     |     |     |
| COLOR TEMPERATURE       | 20K                 | 22K | 24K | 27K | 30K | 35K | 40K | 57K | 65K | 27K                 | 30K | 35K | 40K | 45K | 57K | 65K | 20K                 | 22K | 24K | 27K | 30K | 35K | 40K | 57K | 65K |
| LUMENS PER FOOT (lm/ft) | 50                  | 50  | 51  | 52  | 52  | 54  | 59  | 63  | 68  | 56                  | 66  | 68  | 70  | 76  | 82  | 78  | 120                 | 125 | 130 | 135 | 140 | 150 | 160 | 162 | 163 |
| LUMENS PER WATT (lm/w)  | 27                  | 25  | 26  | 26  | 26  | 27  | 90  | 32  | 38  | 31                  | 33  | 34  | 35  | 38  | 41  | 44  | 26                  | 26  | 27  | 28  | 29  | 31  | 33  | 34  | 36  |
| CRI                     | 91+                 | 91+ | 91+ | 91+ | 91+ | 94+ | 94+ | 94+ | 91+ | 91+                 | 91+ | 91+ | 94+ | 94+ | 94+ | 91+ | 91+                 | 91+ | 91+ | 91+ | 91+ | 94+ | 94+ | 94+ | 91+ |

|                         | CLEAR FROSTED LENS  |     |     |     |     |     |     |                     |     |     |     |     |     |     |                     |     |     |     |     |     |     |     |     |  |
|-------------------------|---------------------|-----|-----|-----|-----|-----|-----|---------------------|-----|-----|-----|-----|-----|-----|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| WATTS PER FOOT          | 27K6 5W (4.4 watts) |     |     |     |     |     |     | 2K6K 7W (7.5 watts) |     |     |     |     |     |     | 27K6 7W (7.5 watts) |     |     |     |     |     |     |     |     |  |
| COLOR TEMPERATURE       | 27K                 | 30K | 35K | 40K | 45K | 57K | 65K | 20K                 | 22K | 24K | 27K | 30K | 35K | 40K | 57K                 | 65K | 27K | 30K | 35K | 40K | 45K | 57K | 65K |  |
| LUMENS PER FOOT (lm/ft) | 139                 | 143 | 148 | 153 | 152 | 150 | 150 | 167                 | 175 | 183 | 191 | 199 | 214 | 226 | 228                 | 230 | 188 | 193 | 200 | 207 | 205 | 203 | 202 |  |
| LUMENS PER WATT (lm/w)  | 35                  | 31  | 32  | 33  | 33  | 33  | 37  | 26                  | 24  | 25  | 27  | 28  | 30  | 31  | 32                  | 36  | 29  | 27  | 28  | 29  | 28  | 28  | 32  |  |
| CRI                     | 91+                 | 91+ | 91+ | 94+ | 94+ | 94+ | 91+ | 91+                 | 91+ | 91+ | 91+ | 91+ | 94+ | 94+ | 94+                 | 91+ | 92+ | 92+ | 92+ | 95+ | 93+ | 93+ | 93+ |  |

### LUMEN DATA Lumen Data for Verge Ceiling 24VDC Diffused Lens

| DIFFUSED LENS           |                |     |     |     |     |     |     |                |     |     |      |     |      |     |                |     |     |     |     |     |     |     |     |  |
|-------------------------|----------------|-----|-----|-----|-----|-----|-----|----------------|-----|-----|------|-----|------|-----|----------------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| WATTS PER FOOT          | 2W (2.5 watts) |     |     |     |     |     |     | 5W (4.4 watts) |     |     |      |     |      |     | 7W (7.5 watts) |     |     |     |     |     |     |     |     |  |
| COLOR TEMPERATURE       | 22K            | 24K | 27K | 30K | 35K | 40K | 57K | 22K            | 24K | 27K | 27D* | 30K | 30D* | 35K | 40K            | 57K | 22K | 24K | 27K | 30K | 35K | 40K | 57K |  |
| LUMENS PER FOOT (lm/ft) | 93             | 93  | 94  | 98  | 112 | 118 | 125 | 172            | 172 | 173 | 181  | 181 | 184  | 208 | 219            | 231 | 265 | 265 | 268 | 279 | 321 | 338 | 357 |  |
| LUMENS PER WATT (lm/w)  | 37             | 37  | 38  | 39  | 45  | 47  | 50  | 39             | 39  | 39  | 38   | 41  | 38   | 47  | 50             | 53  | 36  | 36  | 37  | 38  | 44  | 46  | 49  |  |
| CRI                     | 92+            | 92+ | 92+ | 92+ | 92+ | 92+ | 92+ | 92+            | 92+ | 92+ | 94+  | 92+ | 94+  | 92+ | 92+            | 92+ | 92+ | 92+ | 92+ | 92+ | 92+ | 92+ | 92+ |  |

\*27D, 30D - Warm Dim (4.8 Watts)

|                         | DIFFUSED LENS       |     |     |     |     |     |     |     |     |                     |     |     |     |     |     |     |                     |     |     |     |     |     |     |     |     |
|-------------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|---------------------|-----|-----|-----|-----|-----|-----|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| WATTS PER FOOT          | 2K6K 2W (2.5 watts) |     |     |     |     |     |     |     |     | 27K6 2W (2.5 watts) |     |     |     |     |     |     | 2K6K 5W (4.4 watts) |     |     |     |     |     |     |     |     |
| COLOR TEMPERATURE       | 20K                 | 22K | 24K | 27K | 30K | 35K | 40K | 57K | 65K | 27K                 | 30K | 35K | 40K | 45K | 57K | 65K | 20K                 | 22K | 24K | 27K | 30K | 35K | 40K | 57K | 65K |
| LUMENS PER FOOT (lm/ft) | 50                  | 50  | 51  | 52  | 52  | 54  | 59  | 63  | 68  | 54                  | 64  | 66  | 67  | 74  | 79  | 75  | 120                 | 125 | 130 | 135 | 140 | 150 | 160 | 162 | 163 |
| LUMENS PER WATT (lm/w)  | 27                  | 25  | 26  | 26  | 26  | 27  | 90  | 32  | 38  | 30                  | 32  | 33  | 34  | 37  | 40  | 42  | 26                  | 26  | 27  | 28  | 29  | 31  | 33  | 34  | 36  |
| CRI                     | 91+                 | 91+ | 91+ | 91+ | 91+ | 94+ | 94+ | 94+ | 91+ | 91+                 | 91+ | 91+ | 94+ | 94+ | 94+ | 91+ | 91+                 | 91+ | 91+ | 91+ | 91+ | 94+ | 94+ | 94+ | 91+ |

|                         | DIFFUSED LENS       |     |     |     |     |     |     |                     |     |     |     |     |     |     |                     |     |     |     |     |     |     |     |     |  |
|-------------------------|---------------------|-----|-----|-----|-----|-----|-----|---------------------|-----|-----|-----|-----|-----|-----|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|--|
| WATTS PER FOOT          | 27K6 5W (4.4 watts) |     |     |     |     |     |     | 2K6K 7W (7.5 watts) |     |     |     |     |     |     | 27K6 7W (7.5 watts) |     |     |     |     |     |     |     |     |  |
| COLOR TEMPERATURE       | 27K                 | 30K | 35K | 40K | 45K | 57K | 65K | 20K                 | 22K | 24K | 27K | 30K | 35K | 40K | 57K                 | 65K | 27K | 30K | 35K | 40K | 45K | 57K | 65K |  |
| LUMENS PER FOOT (lm/ft) | 134                 | 137 | 142 | 148 | 146 | 145 | 144 | 167                 | 175 | 183 | 191 | 199 | 214 | 226 | 228                 | 230 | 181 | 185 | 192 | 199 | 197 | 195 | 195 |  |
| LUMENS PER WATT (lm/w)  | 34                  | 30  | 31  | 32  | 32  | 31  | 36  | 26                  | 24  | 25  | 27  | 28  | 30  | 31  | 32                  | 36  | 28  | 26  | 27  | 28  | 27  | 27  | 30  |  |
| CRI                     | 91+                 | 91+ | 91+ | 94+ | 94+ | 94+ | 91+ | 91+                 | 91+ | 91+ | 91+ | 91+ | 94+ | 94+ | 94+                 | 91+ | 92+ | 92+ | 92+ | 95+ | 93+ | 93+ | 93+ |  |

#### 2.5 WATTS PER FOOT

| LENGTH IN FEET | WATTS |
|----------------|-------|
| 1              | 3     |
| 2              | 5     |
| 3              | 8     |
| 4              | 10    |
| 5              | 13    |
| 6              | 15    |
| 7              | 17    |
| 8              | 20    |
| 9              | 22    |
| 10             | 24    |
| 11             | 27    |
| 12             | 29    |
| 13             | 32    |
| 14             | 34    |
| 15             | 37    |
| 16             | 39    |
| 17             | 41    |
| 18             | 44    |
| 19             | 46    |
| 20             | 48    |

| LENGTH IN FEET | WATTS |
|----------------|-------|
| 21             | 51    |
| 22             | 54    |
| 23             | 56    |
| 24             | 58    |
| 25             | 61    |
| 26             | 63    |
| 27             | 66    |
| 28             | 68    |
| 29             | 70    |
| 30             | 72    |
| 31             | 75    |
| 32             | 78    |
| 33             | 80    |
| 34             | 82    |
| 35             | 85    |
| 36             | 87    |
| 37             | 90    |
| 38             | 92    |
| 39             | 94    |
| 40             | 96    |

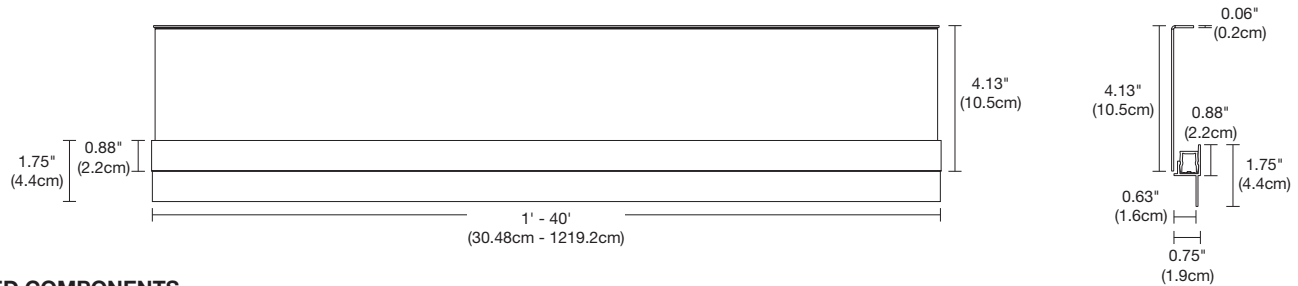
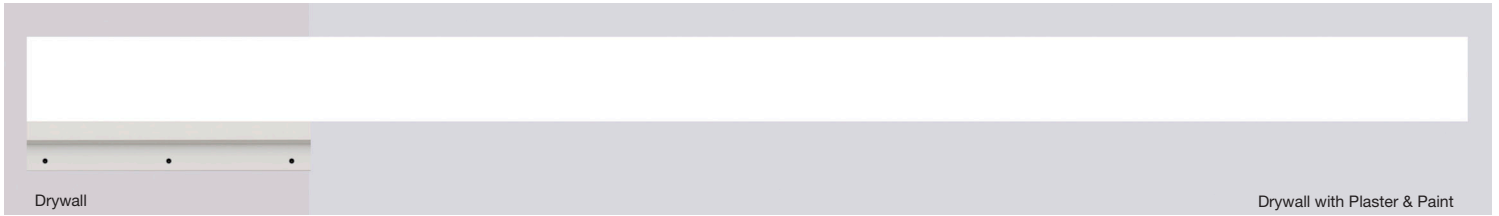
#### 5 WATTS PER FOOT

| LENGTH IN FEET | WATTS |
|----------------|-------|
| 1              | 5     |
| 2              | 10    |
| 3              | 16    |
| 4              | 20    |
| 5              | 24    |
| 6              | 30    |
| 7              | 34    |
| 8              | 40    |
| 9              | 44    |
| 10             | 48    |
| 11             | 54    |
| 12             | 58    |
| 13             | 64    |
| 14             | 68    |
| 15             | 72    |
| 16             | 78    |
| 17             | 82    |
| 18             | 88    |
| 19             | 92    |
| 20             | 96    |

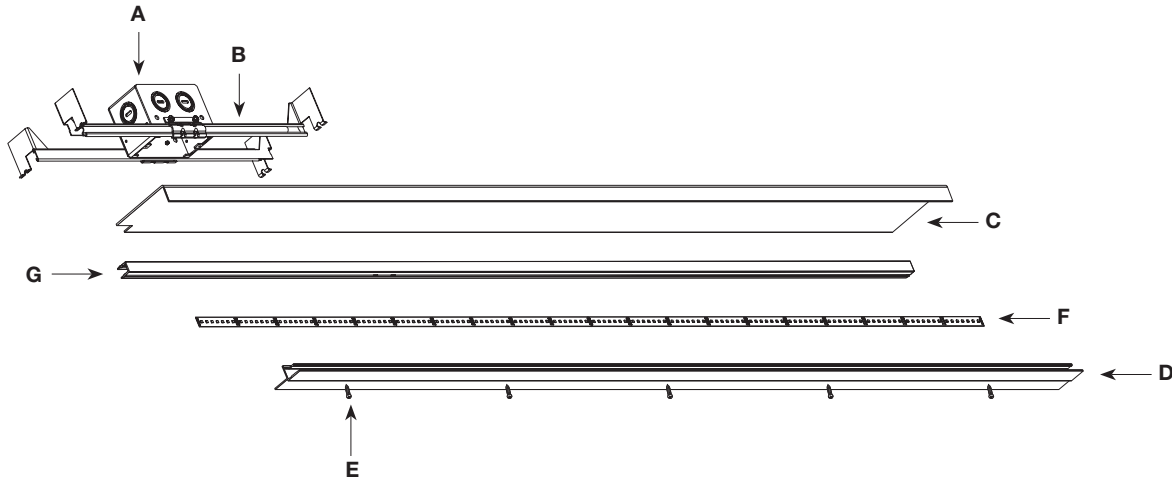
#### 7 WATTS PER FOOT

| LENGTH IN FEET | WATTS |
|----------------|-------|
| 1              | 7.5   |
| 2              | 15    |
| 3              | 22.5  |
| 4              | 30    |
| 5              | 37.5  |
| 6              | 45    |
| 7              | 52.5  |
| 8              | 60    |
| 9              | 67.5  |
| 10             | 75    |
| 11             | 82.5  |
| 12             | 90    |

| PROJECT |  |  |  |  |  |  |  |  |  |  | FIXTURE TYPE |  |  |  |  |  |  |  |  |  |  | DATE |  |  |  |  |  |  |  |  |  |  |
|---------|--|--|--|--|--|--|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|
|---------|--|--|--|--|--|--|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|--|



## INCLUDED COMPONENTS



### A. JUNCTION BOX

Mounts behind drywall with Adjustable Mounting Bars. Low Voltage 24VDC wires from Remote Power Supply connect to LED wires inside box. Junction Box opening is covered by the channel, and required at the beginning of each run.

### B. ADJUSTABLE MOUNTING BARS

Provide flexibility for mounting in a variety of spaces and orientations. May be secured to studs that are spaced 13"-24" apart.

### C. BACKER PLATE

4" paintable aluminum plate that conceals Junction Box and reflects light.

### D. VERGE CEILING CHANNEL

5/8" deep extrusion houses a single row of LED Soft Strip.

### E. DRYWALL SCREWS

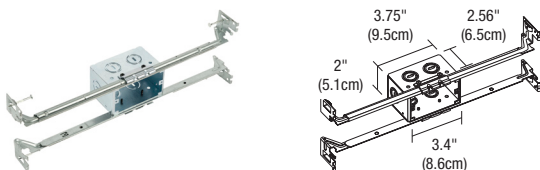
Secures channel to drywall and stud.

### F. LED SOFT STRIP

Commercial-grade white or dynamic color-changing LED Soft Strip. See lamp data for additional details.

### G. LENS

0.6" wide diffused white lens projects a clean line of light without LED dots.



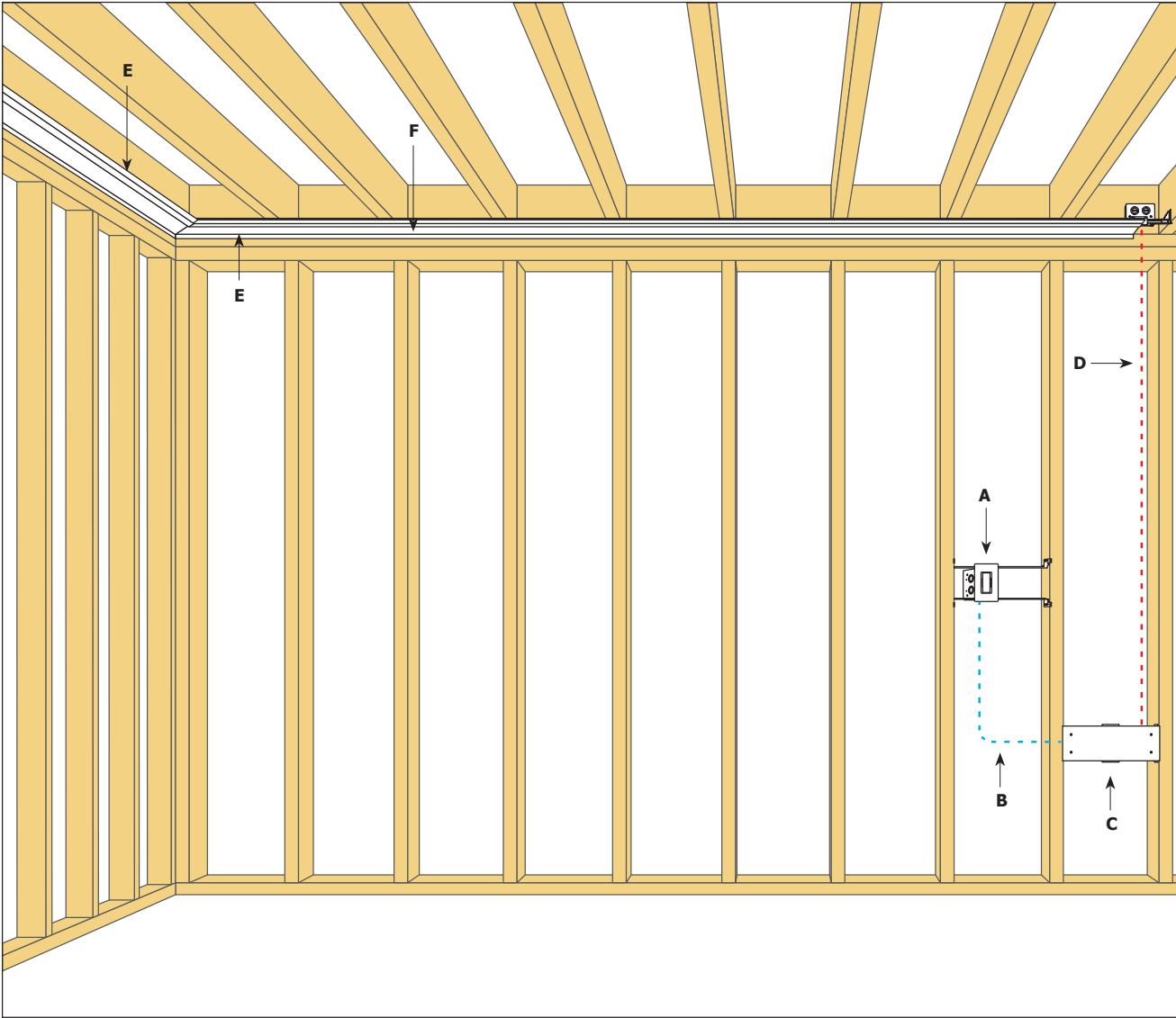
### JUNCTION BOX ROUGH-IN COMPONENT

One Junction Box is included with Verge Ceiling. Order additional Junction Box separately to rough-in electrical wiring before drywall installation. Quick shipment available.

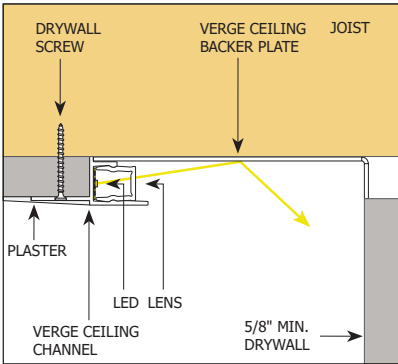
| System                          | Size             | Component         |
|---------------------------------|------------------|-------------------|
| <b>VG</b>                       | <b>1RE</b>       | <b>JBOX</b>       |
| VG Verge                        | 1RE 1" Rectangle | JBOX Junction Box |
| *For RGB+W use VG-1RE-JBOX-RGBW |                  |                   |

|         |              |      |
|---------|--------------|------|
| PROJECT | FIXTURE TYPE | DATE |
|---------|--------------|------|

**INSTALLATION**



- A. DIMMER OR SWITCH**
- B. 120VAC WIRING**
- C. 120V/24VDC REMOTE POWER SUPPLY FOR IN-WALL MOUNTING KIT**
- D. 24VDC, CLASS 2 WIRING**
- E. VERGE CEILING CHANNEL**
- F. LED SOFT STRIP**



 Direction of Light

|         |  |              |  |      |  |
|---------|--|--------------|--|------|--|
| PROJECT |  | FIXTURE TYPE |  | DATE |  |
|---------|--|--------------|--|------|--|

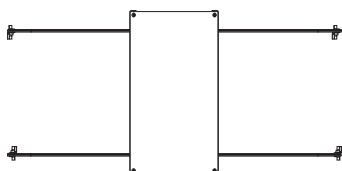
| 0-10 VOLT (010) POWER SUPPLIES & RECOMMENDED DIMMERS |                        |                        |                        |
|------------------------------------------------------|------------------------|------------------------|------------------------|
| ORDERING CODE                                        | PSB-25W-010-24VDC      | PSB-60W-010-24VDC      | PSB-96W-010-24VDC      |
|                                                      |                        |                        |                        |
| SPECIFICATIONS                                       |                        |                        |                        |
| MAXIMUM LOAD                                         | 25W                    | 60W                    | 96W                    |
| INPUT VOLTAGE                                        | 120-277VAC             | 120-277VAC             | 120-277VAC             |
| OUTPUT VOLTAGE                                       | 24VDC                  | 24VDC                  | 24VDC                  |
| DIMENSIONS                                           | 12.4" X 3.12" X 2.18"  | 12.4" X 3.12" X 2.18"  | 12.4" X 3.12" X 2.18"  |
| CLASSIFICATION                                       | CLASS 2                | CLASS 2                | CLASS 2                |
| T-BAR MOUNTING                                       | PSB-25W-010-24VDC-TB   | PSB-60W-010-24VDC-TB   | PSB-96W-010-24VDC-TB   |
| IN-WALL MOUNTING                                     | PSB-25W-010-24VDC-IW   | PSB-60W-010-24VDC-IW   | PSB-96W-010-24VDC-IW   |
| 0-10 VOLT (010) POWER SUPPLIES & RECOMMENDED DIMMERS |                        |                        |                        |
| ORDERING CODE                                        | PSB-2X96W-010-24VDC    | PSB-3X96W-010-24VDC    | PSB-4X96W-010-24VDC    |
|                                                      |                        |                        |                        |
| SPECIFICATION                                        |                        |                        |                        |
| MAXIMUM LOAD                                         | 2X96W                  | 3X96W                  | 4X96W                  |
| INPUT VOLTAGE                                        | 120-277VAC             | 120-277VAC             | 120-277VAC             |
| OUTPUT VOLTAGE                                       | 24VDC                  | 24VDC                  | 24VDC                  |
| DIMENSIONS                                           | 12.15" X 6.48" X 2.18" | 14" X 10" X 3"         | 17" X 13" X 3"         |
| CLASSIFICATION                                       | CLASS 2                | CLASS 2                | CLASS 2                |
| T-BAR MOUNTING                                       | PSB-2X96W-010-24VDC-TB | PSB-3X96W-010-24VDC-TB | PSB-4X96W-010-24VDC-TB |
| IN-WALL MOUNTING                                     | PSB-2X96W-010-24VDC-IW | N/A                    | N/A                    |
| DIMMING & CONTROLS                                   |                        |                        |                        |
| PHILIPS SUNRISE: SR1200ZTUNV                         | •                      | •                      | •                      |
| LUTRON DIVA: DVTW-WH, DVSTV-WH                       | •                      | •                      | •                      |
| LUTRON NOVA T: NTSTV-DV-XX                           | •                      | •                      | •                      |
| LUTRON GRAFIX EYE QS: QSGRJ-XP                       | •                      | •                      | •                      |
| LUTRON RADIO RA2: RRD-10ND                           | •                      | •                      | •                      |
| LEVITON: LEV40050                                    | •                      | •                      | •                      |
| LEVITON IP710-LFZ                                    | •                      | •                      | •                      |
| LEGRAND: ADPD4FBL3P2W4                               | •                      | •                      | •                      |

- Flicker free dimming
- Aluminum casing for optimal heat dissipation
- Isolated output power per NEC and UL safety requirements
- UL & ETL recognized/ listed, meets UL 8750, 1310 requirements

- Auto-reset; short circuit, overload and thermal protection
- Class 2 power supply
- Efficient, High power factor > 90

\*Title 24 compliant when used with JA8 listed PureEdge systems.

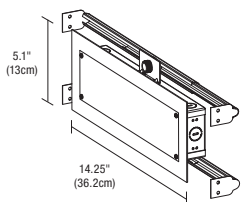
\*\*Up + Down Light fixtures and Systems can be controlled individually or together depending on the power supply selection.



**T-BAR Mounting Kit:** Includes power supply, box cover, and T-bar hangers for installing Junction Box above ceiling with in easy reach. Comes with 4' of 14 gauge pair Teflon cables with quick secure connectors.

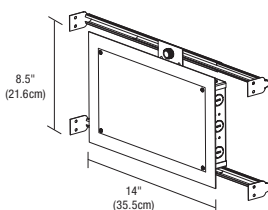
#### Ordering Codes:

PSB-25W-010-24VDC-TB,  
PSB-60W-010-24VDC-TB,  
PSB-96W-010-24VDC-TB,  
PSB-2X96W-010-24VDC-TB  
PSB-3X96W-010-24VDC-TB  
PSB-4X96W-010-24VDC-TB



**5.1" x 14.25" In-Wall Mounting Kit:** Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

**Ordering Codes:** PSB-25W-010-24VDC-IW, PSB-60W-010-24VDC-IW, PSB-96W-010-24VDC-IW



**8.5" x 14" In-Wall Mounting Kit:** Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

**Ordering Codes:** PSB-2X96W-010-24VDC-IW

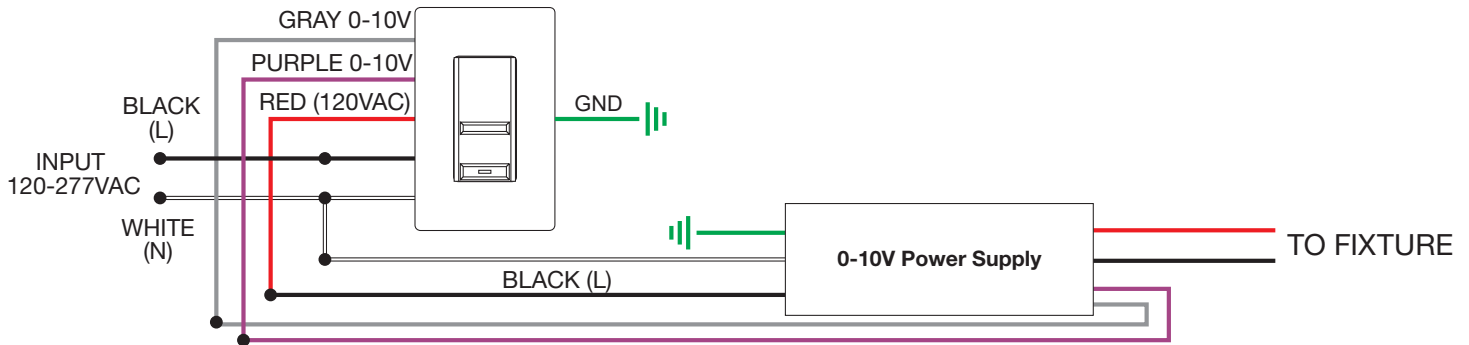
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| PROJECT |  | FIXTURE TYPE |  | DATE |  |
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## SAMPLE WIRING DIAGRAMS 24VDC 010

**Application:** 0-10V Dimming Applications For Static White and Warm Dim

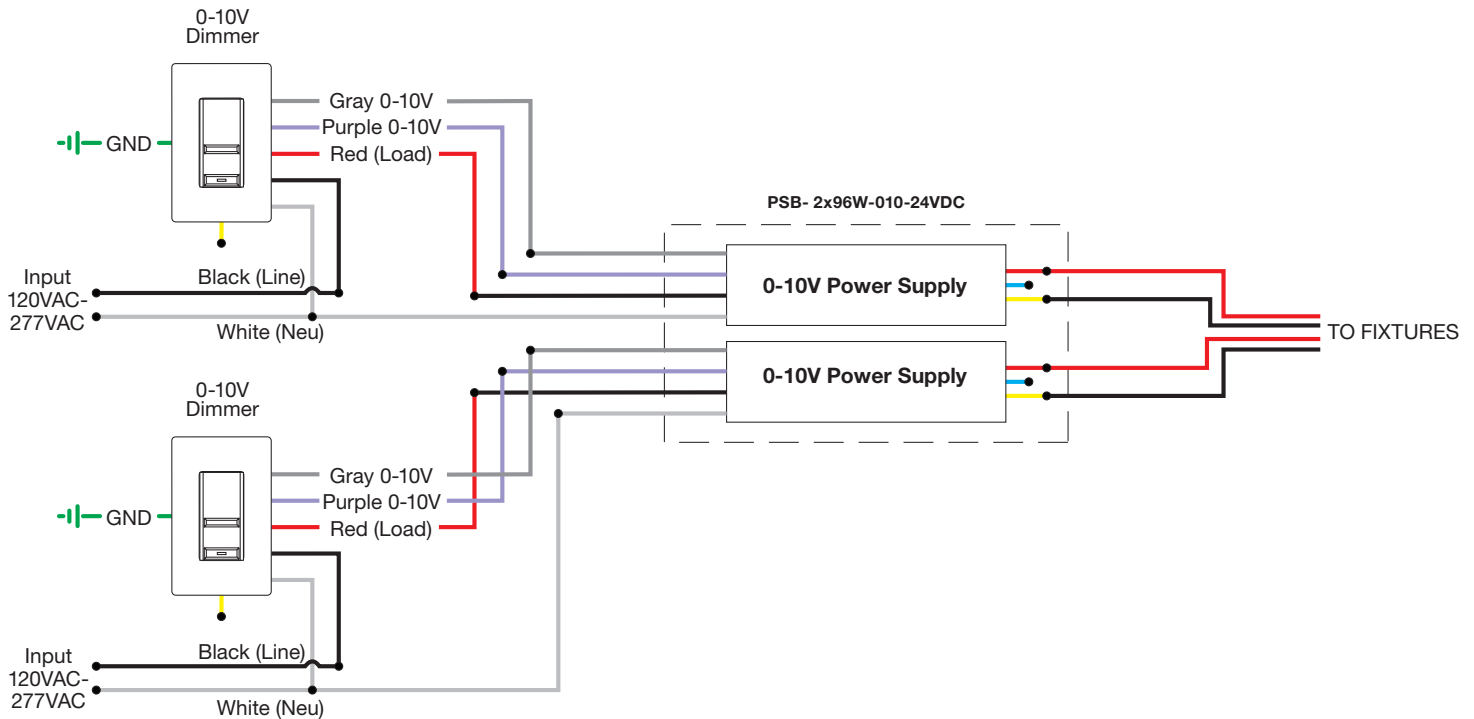
**Dimming:** Dimmable with 0-10V dimmers: Signify (Phillips) Sunrise: SR1200ZTUNV, Leviton Dimmers: LEV40050, IP710-LFZ, \*IP710-DLZ \*(Built in LED locator light) Legrand Dimmer: ADPD4FBL3P2W4 Lutron Systems: Lutron GRAFIX Eye QS Main Unit (with DRX-TVI) Radio Ra2 (with GRX-TVI)

### 0-10V DIMMER



**Application:** Dual 0-10V dimming for Static White

**Dimming:** Dimmable with Dual 0-10V dimmers: Signify (Phillips) Sunrise: SR1200ZTUNV, Leviton Dimmers: LEV40050, IP710-LFZ, \*IP710-DLZ \*(Built in LED locator light), Legrand Dimmer: ADPD4FBL3P2W4, Lutron Systems: Lutron GRAFIX Eye QS Main Unit (with DRX-TVI) Radio Ra2 (with GRX-TVI)



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# INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES

24VDC, ELECTRONIC LOW VOLTAGE FOR STATIC WHITE, WARM DIM

REV 10.06.21

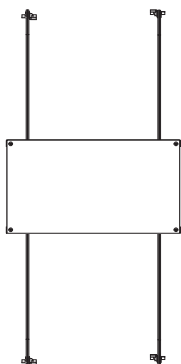
| ELECTRONIC LOW-VOLTAGE (ELV) POWER SUPPLIES & RECOMMENDED DIMMERS†‡ |                                                                                   |                                                                                    |                                                                                     |                                                                                     |        |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|
| ORDERING CODES                                                      | PS-60L-ELV-24VDC                                                                  | PSB-60W-ELV-24VDC                                                                  | PSB-2X60W-ELV-24VDC                                                                 | PSB-100W-ELV-24VDC                                                                  |        |
|                                                                     |  |   |  |  |        |
|                                                                     | SPECIFICATIONS                                                                    |                                                                                    |                                                                                     |                                                                                     |        |
|                                                                     | MAXIMUM LOAD                                                                      | 60W NON-IC, 50W-IC (FITS IN JBOX)                                                  | 60W                                                                                 | 2X60W                                                                               | 96W    |
|                                                                     | INPUT VOLTAGE                                                                     | 120VAC                                                                             | 120VAC                                                                              | 120VAC                                                                              | 120VAC |
| OUTPUT VOLTAGE                                                      | 24VDC                                                                             | 24VDC                                                                              | 24VDC                                                                               | 24VDC                                                                               |        |
| DIMENSIONS                                                          | 2.25" X 1.25" X 0.83"                                                             | 8.125" X 2" X 1.75"                                                                | 12.15" X 6.48" X 2.18"                                                              | 9.25" X 3.5" X 2"                                                                   |        |
| CLASSIFICATION                                                      | CLASS 2                                                                           | CLASS 2                                                                            | CLASS 2                                                                             | CLASS 2                                                                             |        |
| T-BAR MOUNTING                                                      | N/A                                                                               | PSB-60W-ELV-24VDC-TB                                                               | PSB-2X60W-ELV-24VDC-TB                                                              | PSB-100W-ELV-24VDC-TB                                                               |        |
| IN WALL MOUNTING                                                    | N/A                                                                               | PSB-60W-ELV-24VDC-IW                                                               | PSB-2X60W-ELV-24VDC-IW                                                              | PSB-100W-ELV-24VDC-IW                                                               |        |
| ELECTRONIC LOW-VOLTAGE (ELV) POWER SUPPLIES & RECOMMENDED DIMMERS†‡ |                                                                                   |                                                                                    |                                                                                     |                                                                                     |        |
| ORDERING CODES                                                      | PSB-2X100W-ELV-24VDC                                                              | PSB-3X100W-ELV-24VDC                                                               | PSB-4X100W-ELV-24VDC                                                                |                                                                                     |        |
|                                                                     |  |  |  |                                                                                     |        |
|                                                                     | SPECIFICATIONS                                                                    |                                                                                    |                                                                                     |                                                                                     |        |
|                                                                     | MAXIMUM LOAD                                                                      | 2X96W                                                                              | 3X96W                                                                               | 4X96W                                                                               |        |
|                                                                     | INPUT VOLTAGE                                                                     | 120VAC                                                                             | 120VAC                                                                              | 120VAC                                                                              |        |
| OUTPUT VOLTAGE                                                      | 24VDC                                                                             | 24VDC                                                                              | 24VDC                                                                               |                                                                                     |        |
| DIMENSIONS                                                          | 12.15" X 6.48" X 2.18"                                                            | 14" X 10" X 3"                                                                     | 17" X 13" X 3"                                                                      |                                                                                     |        |
| CLASSIFICATION                                                      | CLASS 2                                                                           | CLASS 2                                                                            | CLASS 2                                                                             |                                                                                     |        |
| T-BAR MOUNTING                                                      | PSB-2X100W-ELV-24VDC-TB                                                           | PSB-3X100W-ELV-24VDC-TB                                                            | PSB-4X100W-ELV-24VDC-TB                                                             |                                                                                     |        |
| IN WALL MOUNTING                                                    | PSB-2X100W-ELV-24VDC-IW                                                           | N/A                                                                                | N/A                                                                                 |                                                                                     |        |
| DIMMING AND CONTROLS                                                |                                                                                   |                                                                                    |                                                                                     |                                                                                     |        |
| LUTRON DIVA: DVELV-300P                                             | •                                                                                 | •                                                                                  | •                                                                                   |                                                                                     |        |
| LUTRON SKYLARK: SELV-300P                                           | •                                                                                 | •                                                                                  | •                                                                                   |                                                                                     |        |
| LUTRON RADIO RA2: RRD-6NA                                           | •                                                                                 | •                                                                                  | •                                                                                   |                                                                                     |        |
| LUTRON MAESTRO: MAELV-600                                           | •                                                                                 | •                                                                                  | •                                                                                   |                                                                                     |        |
| LEGRAND ADORNE: ADTP-703TUM4                                        | •                                                                                 | •                                                                                  | •                                                                                   |                                                                                     |        |

<sup>†</sup>22K - 57K color temperatures are compatible with 0-10V, ELV, and Lutron Hi-Lume® Power Supplies. Warm Dim (27D, 30D) color temperatures are only compatible with ELV power supplies. Tunable White color temperature is compatible with 0-10V, ELV, DMX, and Lutron Hi-Lume® Power Supplies. Color (RGB, RGB+W) and Static Color (Amber, Blue, Green, or Red) are compatible with DMX Power Supplies.

<sup>‡</sup>Electrical Panels using Seimens/Murray AFCI breakers are not compatible with this ELV transformer. Use 0-10 Volt power supplies with this breaker

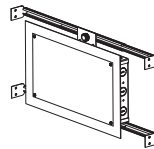
With N-Lite Dimming Do Not use ELV power supplies, use only 0-10 volt or Uni drivers power supplies

\*\*Up + Down Light fixtures and Systems can be controlled individually or together depending on the power supply selection.



**T-Bar Mounting Kit:** Includes power supply, box cover, and T-bar hangers for installing Junction Box above ceiling with in easy reach. Comes with 4' of 14 gauge pair Teflon cables with quick secure connectors.

**Ordering Codes :** PSB-60W-ELV-24VDC-TB  
PSB-100W-ELV-24VDC-TB  
PSB-2X60W-ELV-24VDC-TB  
PSB-2X100W-ELV-24VDC-TB  
PSB-3X100W-ELV-24VDC-TB  
PSB-4X100W-ELV-24VDC-TB



**In-Wall Mounting Kit:** Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

**Ordering Codes 5.1" x 14.25":** PSB-60W-ELV-24VDC-IW  
PSB-100W-ELV-24VDC-IW

**Ordering Codes 8.5" x 14.25":** PSB-2X60W-ELV-24VDC-IW  
PSB-2X100W-ELV-24VDC-IW

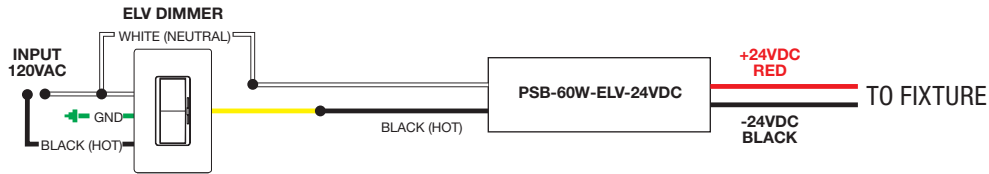
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## SAMPLE WIRING DIAGRAMS 24VDC ELV

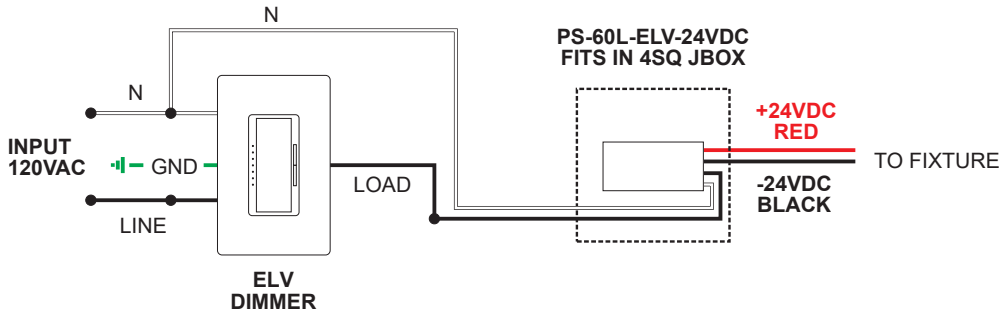
**Application:** ELV dimming for Static White

**Dimming:** Dimmable with ELV dimmer: Legrand, Adorne ADTP703TU; Lutron: Diva DVELV-300P, Skylark SELV-300P, Maestro MAELV-600 and Radio Ra 2



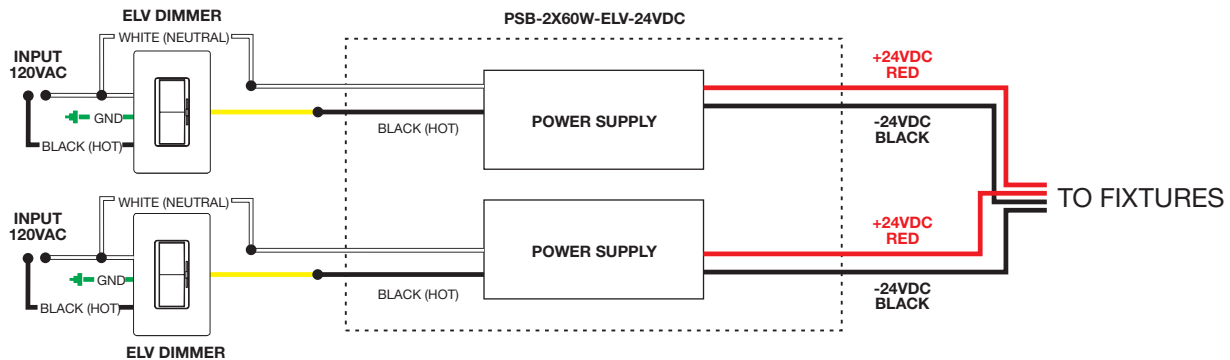
**Application:** ELV dimming for Static White

**Dimming:** Dimmable with ELV dimmer: Legrand, Adorne ADTP703TU; Lutron: Diva DVELV-300P, Skylark SELV-300P, Maestro MAELV-600 and Radio Ra 2



**Application:** Dual ELV dimming for Static White

**Dimming:** Dimmable with ELV dimmer: Legrand, Adorne ADTP703TU; Lutron: Diva DVELV-300P, Skylark SELV-300P, Maestro MAELV-600 and Radio Ra 2



|         |  |              |  |      |  |
|---------|--|--------------|--|------|--|
| PROJECT |  | FIXTURE TYPE |  | DATE |  |
|---------|--|--------------|--|------|--|



# INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES

24VDC, UNIVERSAL DIMMING WITH ELV, TRIAC, & 0-10V FOR STATIC WHITE, WARM DIM

REV 10.06.21

| UNIVERSAL POWER SUPPLIES & RECOMMENDED DIMMERS |                   |                   |                     |                     |
|------------------------------------------------|-------------------|-------------------|---------------------|---------------------|
| ORDERING CODE                                  | PSB-40W-UNI-24VDC | PSB-60W-UNI-24VDC | PSB-2X40W-UNI-24VDC | PSB-2X60W-UNI-24VDC |
|                                                |                   |                   |                     |                     |

| SPECIFICATIONS   |                       |                       |                        |                        |
|------------------|-----------------------|-----------------------|------------------------|------------------------|
| MAXIMUM LOAD     | 40W                   | 60W                   | 2X40W                  | 2X60W                  |
| INPUT VOLTAGE    | 120-277VAC            | 120-277VAC            | 120-277VAC             | 120-277VAC             |
| OUTPUT VOLTAGE   | 24VDC                 | 24VDC                 | 24VDC                  | 24VDC                  |
| DIMENSIONS       | 12.4" X 3.12" X 2.18" | 12.4" X 3.12" X 2.18" | 12.15" X 6.48" X 2.18" | 12.15" X 6.48" X 2.18" |
| CLASSIFICATION   | CLASS 2               | CLASS 2               | CLASS 2                | CLASS 2                |
| T-BAR MOUNTING   | PSB-40W-UNI-24VDC-TB  | PSB-60W-UNI-24VDC-TB  | PSB-2X40W-UNI-24VDC-TB | PSB-2X60W-UNI-24VDC-TB |
| IN-WALL MOUNTING | PSB-40W-UNI-24VDC-IW  | PSB-60W-UNI-24VDC-IW  | PSB-2X40W-UNI-24VDC-IW | PSB-2X60W-UNI-24VDC-IW |

| UNIVERSAL POWER SUPPLIES & RECOMMENDED DIMMERS |                   |                     |                     |                     |
|------------------------------------------------|-------------------|---------------------|---------------------|---------------------|
| ORDERING CODE                                  | PSB-96W-UNI-24VDC | PSB-2X96W-UNI-24VDC | PSB-3X96W-UNI-24VDC | PSB-4X96W-UNI-24VDC |
|                                                |                   |                     |                     |                     |

| SPECIFICATIONS   |                       |                        |                        |                        |
|------------------|-----------------------|------------------------|------------------------|------------------------|
| MAXIMUM LOAD     | 96W                   | 2X96W                  | 3X96W                  | 4X96W                  |
| INPUT VOLTAGE    | 120-277VAC            | 120-277VAC             | 120-277VAC             | 120-277VAC             |
| OUTPUT VOLTAGE   | 24VDC                 | 24VDC                  | 24VDC                  | 24VDC                  |
| DIMENSIONS       | 12.4" X 3.12" X 2.18" | 12.15" X 6.48" X 2.18" | 14" X 10" X 3"         | 17" X 13" X 3"         |
| CLASSIFICATION   | CLASS 2               | CLASS 2                | CLASS 2                | CLASS 2                |
| T-BAR MOUNTING   | PSB-96W-UNI-24VDC-TB  | PSB-2X96W-UNI-24VDC-TB | PSB-3X96W-UNI-24VDC-TB | PSB-4X96W-UNI-24VDC-TB |
| IN-WALL MOUNTING | PSB-96W-UNI-24VDC-IW  | PSB-2X96W-UNI-24VDC-IW | NA                     | NA                     |

| ELV DIMMING & CONTROLS       |   |   |   |   |
|------------------------------|---|---|---|---|
| LUTRON DIVA: DVELV-300P      | • | • | • | • |
| LUTRON SKYLARK: SELV-300P    | • | • | • | • |
| LUTRON RADIO RA2: RRD-6NA    | • | • | • | • |
| LUTRON MAESTRO: MAELV-600    | • | • | • | • |
| LEGRAND ADORNE: ADTP-703TUM4 | • | • | • | • |

| 0-10 DIMMING & CONTROLS        |   |   |   |   |
|--------------------------------|---|---|---|---|
| PHILIPS SUNRISE: SR1200ZTUNV   | • | • | • | • |
| LUTRON DIVA: DDTV-WH, DVSTV-WH | • | • | • | • |
| LUTRON NOVA T: NTSTV-DV-XX     | • | • | • | • |
| LUTRON GRAFIX EYE QS: QSGRJ-XP | • | • | • | • |
| LUTRON RADIO RA2: RRD-10ND     | • | • | • | • |
| LEVITON: LEV40050              | • | • | • | • |
| LEVITON IP710-LFZ              | • | • | • | • |
| LEGRAND: ADPD4FBL3P2W4         | • | • | • | • |

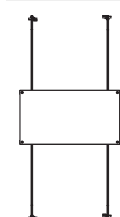
| TRIAC DIMMING & CONTROLS    |   |   |   |   |
|-----------------------------|---|---|---|---|
| LUTRON SKYLARK: S2-L-WH     | • | • | • | • |
| LUTRON DIVA DVLV-600P-WH    | • | • | • | • |
| LUTRON DIVA DVLV-603P-WH    | • | • | • | • |
| LUTRON MAESTRO MALV-600-WH  | • | • | • | • |
| LUTRON MAESTRO MALV-1000-WH | • | • | • | • |
| LUTRON MAESTRO MA-R-XX      | • | • | • | • |

- Flicker free dimming
- Aluminum casing for optimal heat dissipation
- Isolated output power per NEC and UL safety requirements
- UL & ETL recognized/ listed, meets UL 8750, 1310 requirements
- Auto-reset; short circuit, overload and thermal protection
- Class 2 power supply
- Efficient, High power factor > 0.90

\*Title 24 with JAB listed PureEdge products and systems

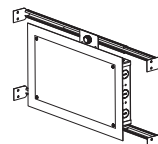
\*Tunable White requires Dual power Supplies and Controls. For single control use with our proprietary Tunable White Controller CDMX-1, refer to Universal Tunable White Power Supply Specifications. Up + Down Light fixtures and Systems can be controlled individually or together depending on the power supply selection.

**T-Bar Mounting Kit:** Includes power supply, box cover, and T-bar hangers for installing Junction Box above ceiling with in easy reach. Comes with 4' of 14 gauge pair Teflon cables with quick secure connectors.



**Ordering Codes :** PSB-40W-UNI-24VDC-TB, PSB-60W-UNI-24VDC-TB, PSB-96W-UNI-24VDC-TB, PSB-2X40W-UNI-24VDC-TB, PSB-2X60W-UNI-24VDC-TB, PSB-2X96W-UNI-24VDC-TB, PSB-3X96W-UNI-24VDC-TB, PSB-4X96W-UNI-24VDC-TB

- The Solid State Constant Voltage Uni-Power Supply is compatible with most commercially available Dimmers:
  - Triac Dimmer: (Forward Phase) Typically used for the dimming of Incandescent and Low Voltage Magnetic Transformers
  - ELV Dimmer: (Reverse Phase) Dimming of Electronic Low Voltage Transformers and Power Supplies used for LED lighting
  - 0-10 Dimmer : Dims the Low Voltage side of a 0-10 volt power supply commonly used in large scale lighting or commercial applications.
- The Uni-Power Supply is recommended with any Siemens/Murray brand of arc fault breaker to overcome the issues with tripping the breakers with an ELV LED Low Voltage Drivers.



**In-Wall Mounting Kit:** Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

**Ordering Codes 5.1" x 14.25":** PSB-40W-UNI-24VDC-IW, PSB-60W-UNI-24VDC-IW, PSB-96W-UNI-24VDC-IW

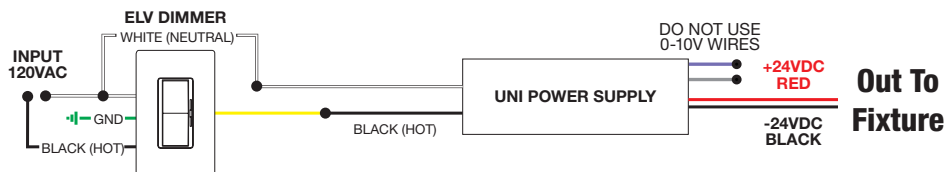
**Ordering Codes 8.5" x 14.25":** PSB-2X40W-UNI-24VDC-IW, PSB-2X60W-UNI-24VDC-IW, PSB-2X96W-UNI-24VDC-IW

|         |              |      |
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| PROJECT | FIXTURE TYPE | DATE |
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## WIRING DIAGRAMS UNIVERSAL POWER SUPPLY

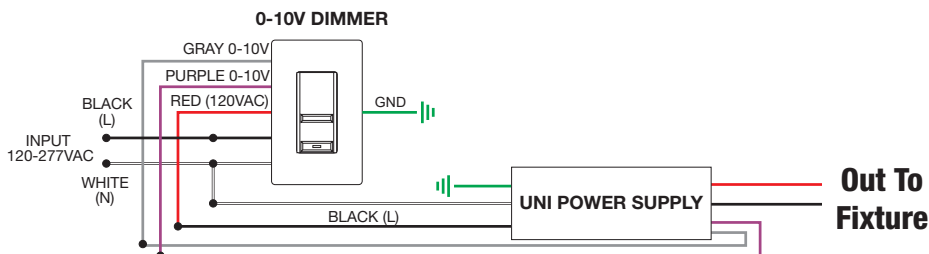
**Application:** ELV dimming for Static White and Warm Dim

**Dimming:** Dimmable with ELV dimmer: Legrand, Adorne ADTP703TU; Lutron: Diva DVELV-300P, Skylark SELV-300P, Maestro MAELV-600 and Radio Ra 2



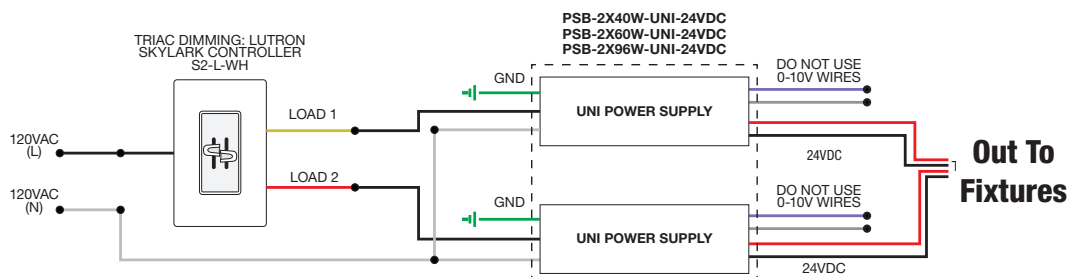
**Application:** 0-10V dimming for Static White

**Dimming:** Dimmable with 0-10V dimmer: Philips Sunrise: SR1200ZTUNV; Lutron Diva: DVTV-WH, DVSTV-WH; Lutron Nova T: NTSTV-DV-XX; Lutron Grafix EYE QS: QSGRJ-XP; Lutron Radio Ra2: RRD-10ND; Leviton: LEV40050; Leviton IP710-LFZ; Legrand: ADPD4FBL3P2W4



**Application:** Triac dimming for two power supplies, use for Static White

**Dimming:** Dimmable with Triac dimmer: Lutron: Skylark S2-L



|         |  |              |  |      |  |
|---------|--|--------------|--|------|--|
| PROJECT |  | FIXTURE TYPE |  | DATE |  |
|---------|--|--------------|--|------|--|

# INDOOR TUNABLE WHITE 0-10V 96 WATT LED POWER SUPPLY

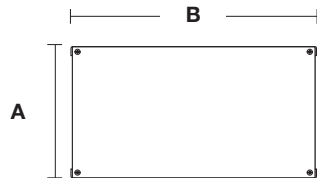
24VDC INDOOR CONSTANT VOLTAGE, TWO CHANNEL CONTROLS, FOR INTENSITY AND COLOR TEMPERATURE

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

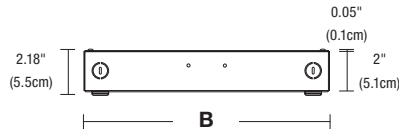
REV 10.06.21



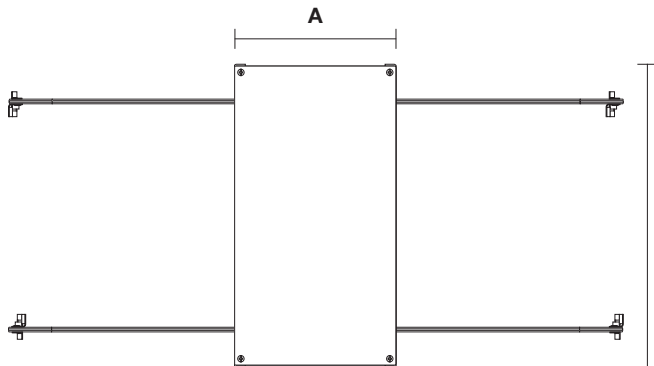
PSB-96W-010-24VDC-2XK



TOP VIEW



SIDE VIEW

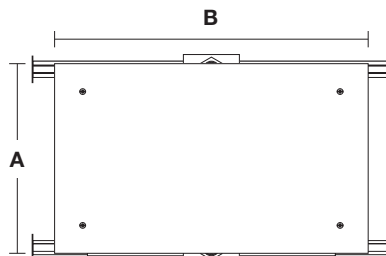


PSB-96W-010-24VDC-2XK-TB  
 (T-BAR GRID CEILING)

| STANDARD & T-BAR DIMENSIONS |       |        |
|-----------------------------|-------|--------|
|                             | A     | B      |
| PSB-96W-010-24VDC-2XK       | 6.48" | 12.15" |
| PSB-2X96W-010-24VDC-2XK     | 10"   | 14"    |
| PSB-3X96W-010-24VDC-2XK     | 13"   | 17"    |
| PSB-4X96W-010-24VDC-2XK     | 13"   | 17"    |



PSB-96W-010-24VDC-2XK-IW



PSB-96W-010-24VDC-2XK-IW (IN WALL KIT)

| IN-WALL DIMENSIONS       |      |        |
|--------------------------|------|--------|
|                          | A    | B      |
| PSB-96W-010-24VDC-2XK-IW | 8.5" | 14.25" |

## DESCRIPTION

Accepts input voltage in a range of 120 - 277VAC and outputs 24VDC power up to 96 watts. The low voltage output dims down to 1% when two additional wires are connected to a 0-10V dimmer. The enclosure provides a space inside for electrical connections. In-Wall Power Supply Kit includes power supply, box cover and stud hangers. T-Bar Mounting Kit includes power supply, box cover, and T-bar hangers for installing Junction Box above ceiling with in easy reach. Comes with 4' of 14 gauge pair Teflon cables with quick secure connectors. Power Supply features short circuit, overload and over temperature protection.

## APPLICATIONS

Indoor, Damp Location

## MOUNTING

Surface mounted with conduit access

## POWER INPUT

120-277VAC

## POWER OUTPUT

Class 2; 24 volts DC 4A, up to 96 watts maximum

## EFFICIENCY

90%

## AMBIENT OPERATING TEMPERATURE

-25° C to 40° C

## DIMMING

#1 Controls the intensity. #2 Controls the Color Temperature.

0-10V (dimmer needs to be capable to dim to 0% without ON/OFF switch)

## DIMMING CURVE

Linear, Logarithmic 100% - 0% (HydraDrive)

## COMPLIANCE

Made in the USA, UL, CE, Title 28, Plenum for use in Accordance with UL 2043.

\*Title 24 with JA8 listed PureEdge products and systems

| Product                                 | Wattage                 | Dimming                      | Voltage                 | Color Temperature        | Options                          |
|-----------------------------------------|-------------------------|------------------------------|-------------------------|--------------------------|----------------------------------|
| <b>PSB</b>                              | <b>96W</b>              | <b>010</b>                   | <b>24VDC</b>            | <b>2XK</b>               | <b>STANDARD</b><br>(Leave Blank) |
| <b>PSB</b> Power Supply with Enclosure  | <b>96W</b> 96 Watts     | <b>010</b> 0-10 Volt Dimming | <b>24VDC</b> 24 Volt DC | <b>2XK</b> Tunable White | <b>TB</b> T-Bar Grid Ceiling     |
| Box with Tunable White 0-10V Controller | <b>2X96W</b> 2x96 Watts |                              |                         |                          | <b>IW*</b> In-Wall Kit           |
|                                         | <b>3X96W</b> 3x96 Watts |                              |                         |                          |                                  |
|                                         | <b>4X96W</b> 4x96 Watts |                              |                         |                          |                                  |

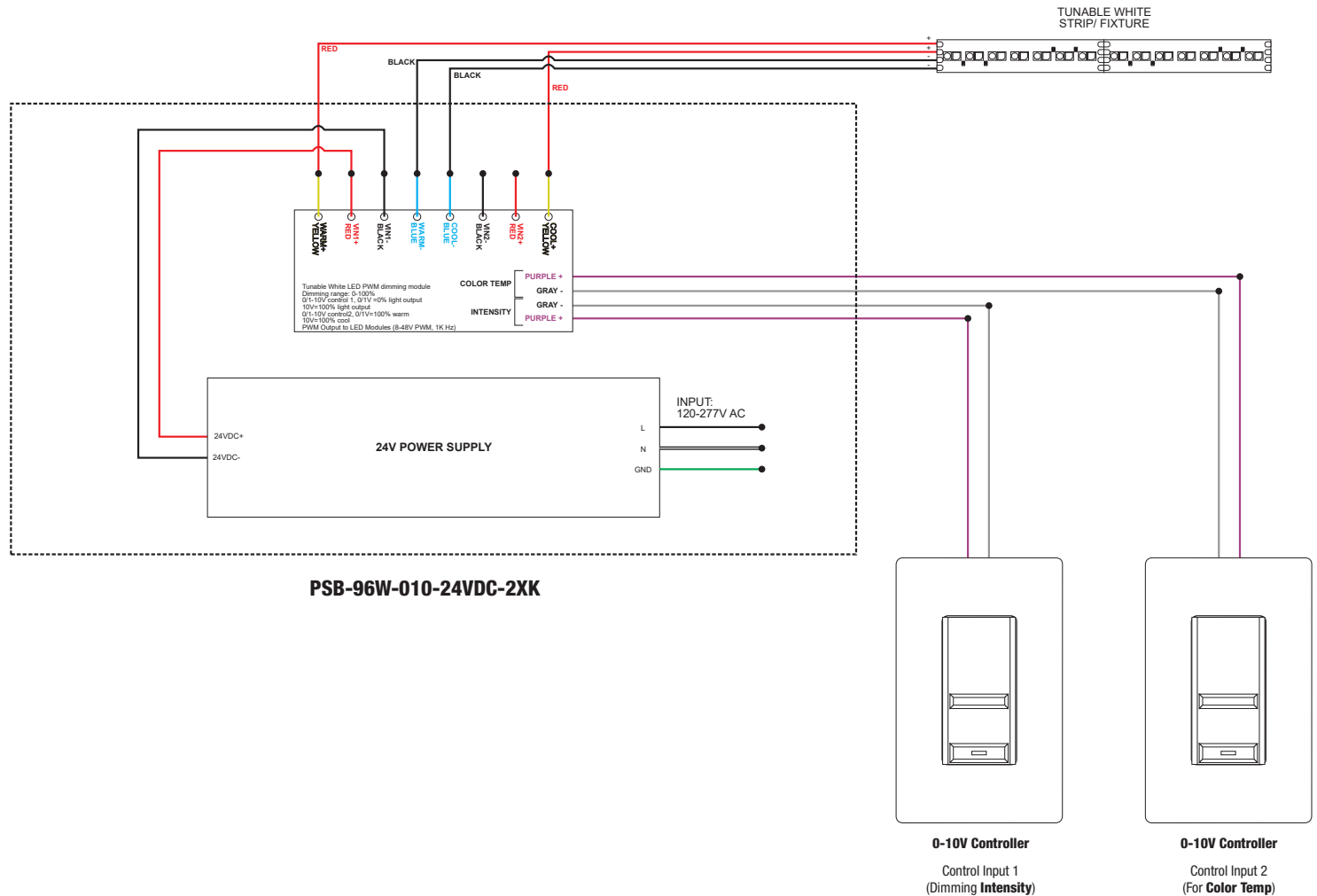
\*96 watts only

| PROJECT | FIXTURE TYPE | DATE |
|---------|--------------|------|
|---------|--------------|------|

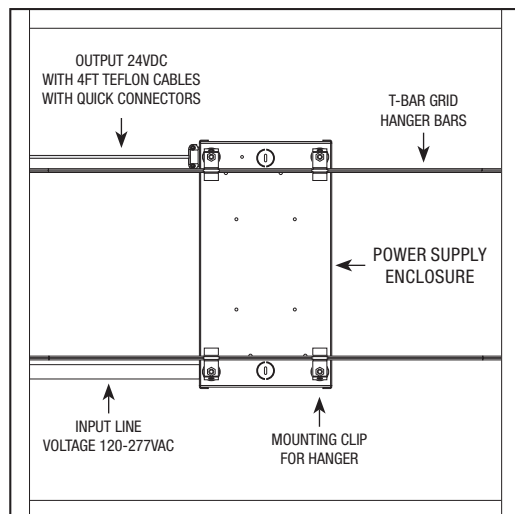
# INDOOR TUNABLE WHITE 0-10V 96 WATT LED POWER SUPPLY

24VDC INDOOR CONSTANT VOLTAGE, TWO CHANNEL CONTROLS, FOR INTENSITY AND COLOR TEMPERATURE

**Application:** 0-10V dimming for Tunable White LED Strip/Fixture

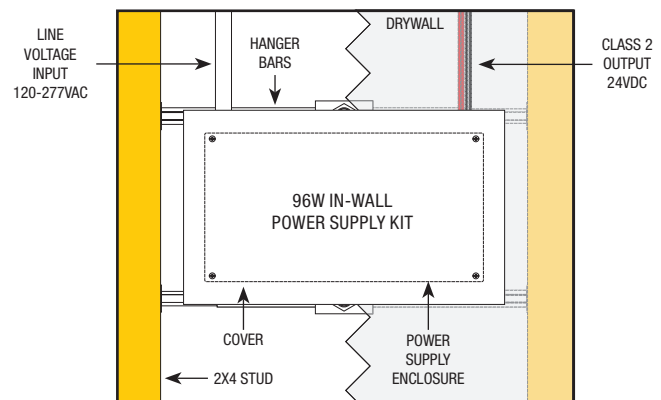


## T-BAR GRID CEILING



PSB-96W-010-24VDC-2XK-TB

## IN WALL KIT



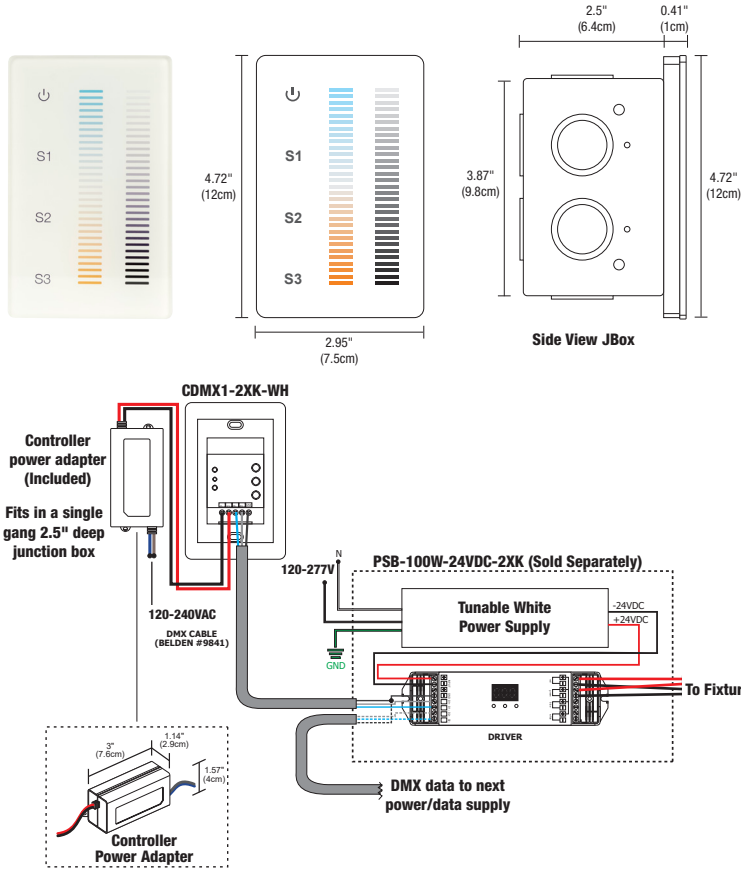
PSB-96W-010-24VDC-2XK-IW

| PROJECT | FIXTURE TYPE | DATE |
|---------|--------------|------|
|---------|--------------|------|

# TUNABLE WHITE DMX CONTROLLER AND POWER SUPPLIES

24VDC INDOOR CONSTANT VOLTAGE POWER SUPPLIES WITH DRIVERS

REV 10.06.21



## DESCRIPTION:

The Tunable White Touch Controller offers fast and accurate Color Temperature adjustment and the ability to regulate the Brightness Independently. The modern Glass faceplate features illuminated indicators, and a back-lit night light that softly illuminates the controller when powered off. Designed for Tunable White, and dual-color LED installations within a single zone. The two Vertical Touch sliders are precise and sensitive, allowing you to fine-tune your perfect Color Temperature at any point between **2000K** (Sunset) to **6500K** (Daylight White) while selecting over 250 levels of Brightness in a smooth, uninterrupted transition. Create Thousands of White Color Combinations while maintaining even Brightness and overall saturation. Easily save three pre-set scenes for different times of the day. Support health, performance, and general well-being using Human-Centric lighting by fine-tuning the biological effects that light has on the circadian cycle using the latest in LED technology. Includes a power adapter that fits behind the controller within a standard junction box and fits inside a standard single-gang receptacle (not for use in a multi-gang box). Use with an insulated, 24 AWG stranded, tinned copper wire (Belden #9841). Power Supplies are Sold Separately. Includes a 5 year pro-rated warranty.

## APPLICATIONS:

Indoor

## OUTPUT SIGNAL:

USITT DMX 512 (1990)

## INSTALLATION:

Fits in a single gang 2.5" deep junction box. Not compatible with multi-gang boxes.

## LABELS:

ROHS, FCC, Damp Location, ETL/UL

## POWER INPUT:

120-240VAC

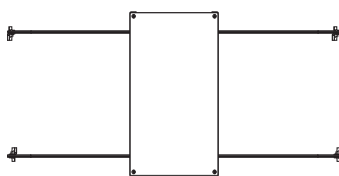
| Product                                | Type              | Finish    |
|----------------------------------------|-------------------|-----------|
| <b>CDMX1</b>                           | <b>2XK</b>        | <b>WH</b> |
| CDMX1 DMX Single Zone Touch Controller | 2XK Tunable White | WH White  |

## COLOR CHANGING (DMX) POWER SUPPLIES

| ORDERING CODE                                     | PSB-100W-24VDC-2XK                                  | PSB-2X100W-24VDC-2XK                                        | PSB-3X100W-24VDC-2XK                                        | PSB-4X100W-24VDC-2XK                                        |
|---------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
|                                                   |                                                     |                                                             |                                                             |                                                             |
| SPECIFICATIONS                                    |                                                     |                                                             |                                                             |                                                             |
| <b>MAXIMUM LOAD OF LED STRIP LENGTH</b>           | 100W<br>5 WATTS - 20FT MAX.<br>10 WATTS - 10FT MAX. | 2X100W<br>5 WATTS 2 X 20FT MAX.<br>10 WATTS - 2 X 10FT MAX. | 3X100W<br>5 WATTS 3 X 20FT MAX.<br>10 WATTS - 3 X 10FT MAX. | 4X100W<br>5 WATTS 4 X 20FT MAX.<br>10 WATTS - 4 X 10FT MAX. |
| <b>INPUT VOLTAGE</b>                              | 120-277VAC                                          | 120-277VAC                                                  | 120-277VAC                                                  | 120-277VAC                                                  |
| <b>OUTPUT VOLTAGE</b>                             | 24VDC                                               | 24VDC                                                       | 24VDC                                                       | 24VDC                                                       |
| <b>DIMENSIONS</b>                                 | 12.4" X 6.48" X 2.18"                               | 14" X 10" X 3"                                              | 17" X 10" X 3"                                              | 17" X 10" X 3"                                              |
| <b>CLASSIFICATION</b>                             | CLASS 2                                             | CLASS 2                                                     | CLASS 2                                                     | CLASS 2                                                     |
| <b>T-BAR MOUNTING</b>                             | PSB-100W-24VDC-2XK-TB                               | PSB-2X100W-24VDC-2XK-TB                                     | PSB-3X100W-24VDC-2XK-TB                                     | PSB-4X100W-24VDC-2XK-TB                                     |
| <b>IN-WALL MOUNTING</b>                           | PSB-100W-24VDC-2XK-IW                               | NA                                                          | NA                                                          | NA                                                          |
| DMX TUNABLE WHITE DIMMING & CONTROLS              |                                                     |                                                             |                                                             |                                                             |
| <b>TUNABLE WHITE TOUCH CONTROLLER (CDMX1-2XK)</b> | •                                                   | •                                                           | •                                                           | •                                                           |

- Flicker free dimming
- Aluminum casing for optimal heat dissipation
- Isolated output power per NEC and UL safety requirements
- UL & ETL recognized/ listed, meets UL 8750, 1310 requirements

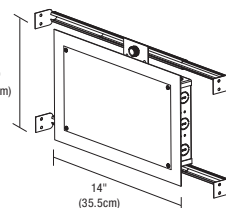
- Auto-reset; short circuit, overload and thermal protection
- Class 2 power supply
- Efficient, High power factor > 0.90



**T-BAR Mounting Kit:** Includes power supply, box cover, and T-bar hangers for installing Junction Box above ceiling with in easy reach. Comes with 4ft of 14 gauge pair Teflon cables with quick secure connectors.

### Ordering Codes:

PSB-100W-24VDC-2XK-TB  
PSB-2x100W-24VDC-2XK-TB  
PSB-3x100W-24VDC-2XK-TB  
PSB-4x100W-24VDC-2XK-TB



**8.5" x 14" In-Wall Mounting Kit:** Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

### Ordering Codes:

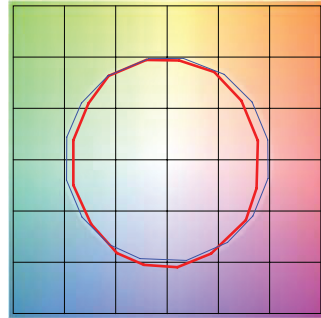
PSB-100W-24VDC-2XK-IW

| PROJECT | FIXTURE TYPE | DATE |
|---------|--------------|------|
|---------|--------------|------|

**TM-30-15 DATA:** The data below is for ST2A, ST5A, ST7A and ST10A bare LED Soft Strips. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

**2200K** | Rf: 83.9 | Rg: 94.9

Color Vector Graphic

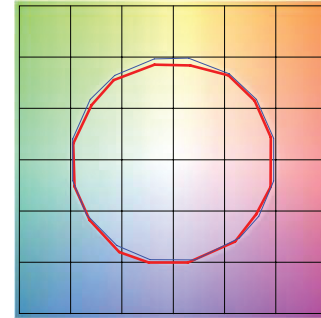


■ Test ■ Reference

| HUE BIN | Rf   | GRAPHIC SHIFTS % |        |
|---------|------|------------------|--------|
|         |      | CHROMA           | HUE    |
| 1       | 78.8 | -9.5%            | 1.3%   |
| 2       | 80.7 | -7.8%            | 6.7%   |
| 3       | 78.2 | -3.3%            | 9.4%   |
| 4       | 89.7 | -2.8%            | 3.6%   |
| 5       | 93.2 | -0.8%            | 2.6%   |
| 6       | 93.0 | -0.6%            | -0.7%  |
| 7       | 87.7 | -5.9%            | -3.5%  |
| 8       | 89.2 | -6.8%            | 1.9%   |
| 9       | 83.4 | -5.6%            | 6.0%   |
| 10      | 79.3 | -3.7%            | 10.8%  |
| 11      | 81.4 | 2.9%             | 11.1%  |
| 12      | 84.9 | 5.3%             | 4.9%   |
| 13      | 88.1 | 4.9%             | -10.1% |
| 14      | 68.1 | 0.1%             | -19.5% |
| 15      | 86.0 | -3.3%            | -7.3%  |
| 16      | 76.4 | -8.9%            | -11.7% |

**2400K** | Rf: 91.2 | Rg: 96.8

Color Vector Graphic

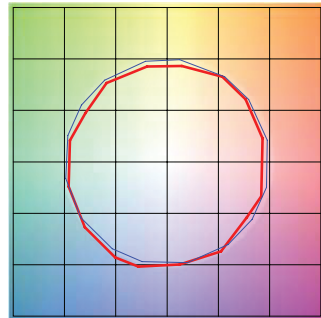


■ Test ■ Reference

| HUE BIN | Rf   | GRAPHIC SHIFTS % |       |
|---------|------|------------------|-------|
|         |      | CHROMA           | HUE   |
| 1       | 92.0 | -2.4%            | 1.5%  |
| 2       | 94.7 | -2.1%            | 0.0%  |
| 3       | 95.4 | -1.9%            | -0.1% |
| 4       | 88.7 | -6.7%            | -3.1% |
| 5       | 92.8 | -5.6%            | 1.0%  |
| 6       | 92.7 | -3.4%            | 3.4%  |
| 7       | 89.9 | -4.3%            | 4.1%  |
| 8       | 92.4 | -1.4%            | 4.4%  |
| 9       | 89.0 | -0.6%            | 5.8%  |
| 10      | 88.9 | 0.4%             | 6.2%  |
| 11      | 89.7 | 4.0%             | 5.4%  |
| 12      | 92.6 | 3.0%             | -0.7% |
| 13      | 90.9 | 1.1%             | -7.0% |
| 14      | 89.9 | 0.5%             | -5.8% |
| 15      | 92.1 | -3.2%            | 0.1%  |
| 16      | 88.9 | -1.7%            | -6.3% |

**2700K** | Rf: 87.7 | Rg: 96.1

Color Vector Graphic

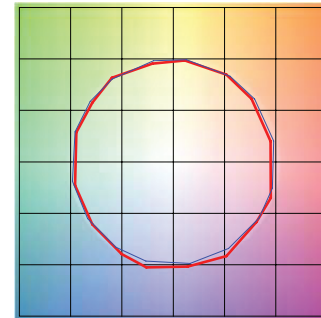


■ Test ■ Reference

| HUE BIN | Rf   | GRAPHIC SHIFTS % |       |
|---------|------|------------------|-------|
|         |      | CHROMA           | HUE   |
| 1       | 86.0 | -4.3%            | 2.6%  |
| 2       | 91.6 | -2.4%            | 2.0%  |
| 3       | 93.7 | -1.4%            | 1.9%  |
| 4       | 88.9 | -5.6%            | -3.1% |
| 5       | 92.3 | -5.5%            | -0.5% |
| 6       | 92.9 | -3.5%            | 0.1%  |
| 7       | 84.5 | -7.5%            | 4.6%  |
| 8       | 90.8 | -3.0%            | 4.4%  |
| 9       | 84.5 | -1.3%            | 8.3%  |
| 10      | 83.9 | 2.0%             | 9.8%  |
| 11      | 87.2 | 5.3%             | 7.1%  |
| 12      | 89.2 | 5.4%             | -2.6% |
| 13      | 88.7 | 0.3%             | -7.8% |
| 14      | 86.8 | 1.7%             | -9.3% |
| 15      | 87.6 | -5.4%            | -1.3% |
| 16      | 83.6 | -3.3%            | -9.5% |

**3000K** | Rf: 88.1 | Rg: 99.7

Color Vector Graphic

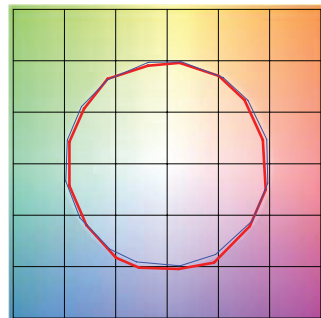


■ Test ■ Reference

| HUE BIN | Rf   | GRAPHIC SHIFTS % |       |
|---------|------|------------------|-------|
|         |      | CHROMA           | HUE   |
| 1       | 92.5 | -3.1%            | 0.3%  |
| 2       | 93.3 | -2.3%            | 1.9%  |
| 3       | 90.9 | -0.8%            | 3.9%  |
| 4       | 94.3 | -1.1%            | 1.4%  |
| 5       | 92.5 | -2.6%            | 1.5%  |
| 6       | 96.4 | 1.2%             | -0.3% |
| 7       | 92.6 | -2.5%            | -0.0% |
| 8       | 96.9 | -1.4%            | 0.2%  |
| 9       | 92.3 | -1.8%            | 4.3%  |
| 10      | 86.6 | -0.7%            | 7.0%  |
| 11      | 86.5 | 2.4%             | 8.2%  |
| 12      | 89.8 | 5.9%             | 1.7%  |
| 13      | 93.9 | 2.6%             | -2.7% |
| 14      | 89.4 | 5.1%             | -5.8% |
| 15      | 90.1 | -0.1%            | -4.7% |
| 16      | 86.5 | 0.3%             | -9.7% |

**3500K** | Rf: 86.1 | Rg: 95.5

Color Vector Graphic

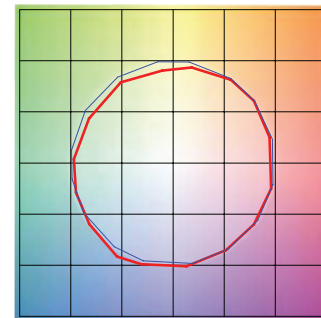


■ Test ■ Reference

| HUE BIN | Rf   | GRAPHIC SHIFTS % |       |
|---------|------|------------------|-------|
|         |      | CHROMA           | HUE   |
| 1       | 90.8 | -3.8%            | 0.3%  |
| 2       | 92.3 | -2.8%            | 2.1%  |
| 3       | 89.7 | -1.0%            | 4.3%  |
| 4       | 92.6 | -1.4%            | 1.7%  |
| 5       | 91.8 | -3.1%            | 1.3%  |
| 6       | 96.2 | 0.8%             | -0.4% |
| 7       | 92.9 | -3.2%            | 0.2%  |
| 8       | 94.3 | -2.5%            | 1.5%  |
| 9       | 90.4 | -2.5%            | 5.2%  |
| 10      | 84.3 | -1.4%            | 9.5%  |
| 11      | 83.1 | 3.5%             | 9.8%  |
| 12      | 88.2 | 4.8%             | 3.4%  |
| 13      | 94.0 | 2.7%             | -2.0% |
| 14      | 88.7 | 5.9%             | -5.8% |
| 15      | 88.7 | 0.7%             | -5.9% |
| 16      | 86.8 | -0.7%            | -6.7% |

**4000K** | Rf: 87.6 | Rg: 96.8

Color Vector Graphic



■ Test ■ Reference

| HUE BIN | Rf   | GRAPHIC SHIFTS % |       |
|---------|------|------------------|-------|
|         |      | CHROMA           | HUE   |
| 1       | 88.9 | -2.4%            | 2.5%  |
| 2       | 93.3 | -0.4%            | 0.8%  |
| 3       | 94.8 | -1.0%            | -0.6% |
| 4       | 87.9 | -4.9%            | -3.6% |
| 5       | 85.3 | -9.4%            | -2.6% |
| 6       | 90.2 | -6.0%            | 0.2%  |
| 7       | 85.3 | -7.6%            | 4.6%  |
| 8       | 83.7 | -4.1%            | 8.2%  |
| 9       | 79.5 | -1.1%            | 13.8% |
| 10      | 78.6 | 1.5%             | 12.1% |
| 11      | 83.5 | 6.4%             | 7.8%  |
| 12      | 90.9 | 3.6%             | -1.1% |
| 13      | 88.3 | 1.7%             | -6.3% |
| 14      | 91.9 | -0.4%            | -2.2% |
| 15      | 84.5 | -0.9%            | -5.5% |
| 16      | 84.7 | -1.1%            | -4.4% |

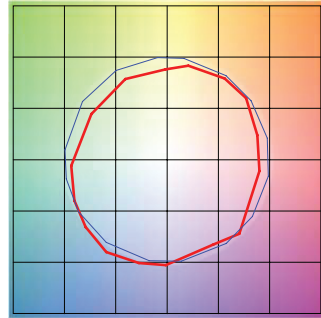
|         |  |              |  |      |  |
|---------|--|--------------|--|------|--|
| PROJECT |  | FIXTURE TYPE |  | DATE |  |
|---------|--|--------------|--|------|--|



**TM-30-15 DATA:** The data below is for ST2A, ST5A, ST7A and ST10A bare LED Soft Strips. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

**5700K** | Rf: 80.3 | Rg: 91.5

Color Vector Graphic

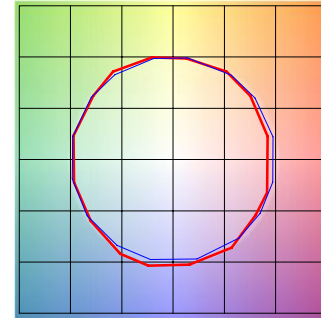


■ Test ■ Reference

|         |      | GRAPHIC SHIFTS % |        |
|---------|------|------------------|--------|
| HUE BIN | Rf   | CHROMA           | HUE    |
| 1       | 75.4 | -8.9%            | 4.7%   |
| 2       | 87.5 | -2.6%            | 4.6%   |
| 3       | 90.7 | -3.0%            | -0.5%  |
| 4       | 83.2 | -6.0%            | -5.7%  |
| 5       | 76.2 | -12.9%           | -5.3%  |
| 6       | 81.4 | -11.9%           | -2.6%  |
| 7       | 74.8 | -14.0%           | 5.1%   |
| 8       | 69.0 | -9.0%            | 14.1%  |
| 9       | 72.6 | -3.6%            | 22.2%  |
| 10      | 71.4 | 2.7%             | 16.1%  |
| 11      | 81.3 | 7.9%             | 5.3%   |
| 12      | 83.6 | 4.1%             | -9.4%  |
| 13      | 78.4 | 0.7%             | -15.3% |
| 14      | 77.7 | -6.2%            | -11.0% |
| 15      | 68.8 | -1.3%            | -21.2% |
| 16      | 80.8 | -9.6%            | 3.3%   |

**2700D** | Rf: 89.5 | Rg: 100.8

Color Vector Graphic

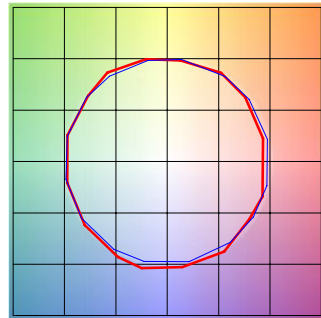


■ Test ■ Reference

|         |      | GRAPHIC SHIFTS % |        |
|---------|------|------------------|--------|
| HUE BIN | Rf   | CHROMA           | HUE    |
| 1       | 88.8 | -5.1%            | 1.4%   |
| 2       | 89.8 | -2.7%            | 4.1%   |
| 3       | 87.2 | 0.3%             | 5.9%   |
| 4       | 92.3 | -0.9%            | 1.0%   |
| 5       | 93.3 | 1.5%             | 1.7%   |
| 6       | 92.4 | 3.6%             | -0.2%  |
| 7       | 92.2 | -0.9%            | -2.4%  |
| 8       | 96.7 | -0.4%            | -1.1%  |
| 9       | 92.3 | -1.2%            | 3.7%   |
| 10      | 88.9 | -0.0%            | 6.1%   |
| 11      | 86.4 | 5.1%             | 7.4%   |
| 12      | 88.2 | 6.3%             | -0.9%  |
| 13      | 87.2 | 3.8%             | -8.1%  |
| 14      | 84.2 | 3.8%             | -11.0% |
| 15      | 89.8 | -2.6%            | -4.3%  |
| 16      | 82.7 | -3.4%            | -11.1% |

**3000D** | Rf: 89.8 | Rg: 101.4

Color Vector Graphic

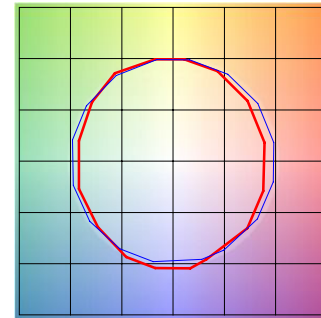


■ Test ■ Reference

|         |      | GRAPHIC SHIFTS % |        |
|---------|------|------------------|--------|
| HUE BIN | Rf   | CHROMA           | HUE    |
| 1       | 90.2 | -4.2%            | 1.5%   |
| 2       | 90.9 | -2.0%            | 3.7%   |
| 3       | 87.9 | 0.8%             | 5.5%   |
| 4       | 92.1 | -0.9%            | 0.6%   |
| 5       | 93.0 | 1.5%             | 1.6%   |
| 6       | 92.2 | 3.9%             | -0.2%  |
| 7       | 92.1 | -0.3%            | -2.0%  |
| 8       | 96.7 | 0.0%             | -1.2%  |
| 9       | 92.5 | -0.6%            | 3.7%   |
| 10      | 88.3 | 1.1%             | 7.0%   |
| 11      | 87.2 | 4.1%             | 7.4%   |
| 12      | 87.2 | 6.7%             | -1.0%  |
| 13      | 88.2 | 3.8%             | -7.2%  |
| 14      | 85.3 | 4.3%             | -9.9%  |
| 15      | 90.9 | -2.2%            | -3.6%  |
| 16      | 83.4 | -2.2%            | -11.2% |

**2000K ONLY (2K4K)** | Rf: 84.3 | Rg: 96.9

Color Vector Graphic

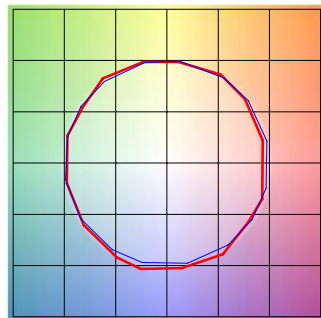


■ Test ■ Reference

|         |      | GRAPHIC SHIFTS % |        |
|---------|------|------------------|--------|
| HUE BIN | Rf   | CHROMA           | HUE    |
| 1       | 80.3 | -8.9%            | 1.7%   |
| 2       | 79.7 | -7.0%            | 7.8%   |
| 3       | 78.9 | -2.9%            | 10.0%  |
| 4       | 89.5 | -0.5%            | 5.1%   |
| 5       | 94.4 | 0.7%             | 1.7%   |
| 6       | 92.1 | 2.4%             | -0.3%  |
| 7       | 89.4 | -2.4%            | -5.9%  |
| 8       | 89.7 | -6.4%            | -0.2%  |
| 9       | 86.0 | -4.9%            | 4.6%   |
| 10      | 81.8 | -3.4%            | 9.3%   |
| 11      | 83.1 | 3.3%             | 9.7%   |
| 12      | 85.8 | 5.6%             | 3.3%   |
| 13      | 85.6 | 6.2%             | -12.8% |
| 14      | 61.7 | -1.9%            | -19.0% |
| 15      | 79.7 | -3.3%            | -12.9% |
| 16      | 78.1 | -7.9%            | -10.6% |

**3000K (2K4K)** | Rf: 90.2 | Rg: 101.4

Color Vector Graphic

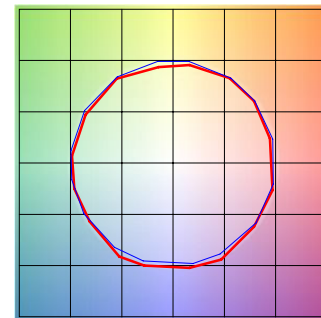


■ Test ■ Reference

|         |      | GRAPHIC SHIFTS % |        |
|---------|------|------------------|--------|
| HUE BIN | Rf   | CHROMA           | HUE    |
| 1       | 90.9 | -3.8%            | 1.3%   |
| 2       | 91.7 | -1.9%            | 3.3%   |
| 3       | 88.7 | 0.7%             | 5.1%   |
| 4       | 92.4 | -1.0%            | 0.7%   |
| 5       | 92.9 | 0.9%             | 1.7%   |
| 6       | 93.1 | 3.3%             | -0.6%  |
| 7       | 91.0 | -1.8%            | -0.4%  |
| 8       | 97.0 | 0.2%             | -1.1%  |
| 9       | 92.8 | -0.5%            | 3.6%   |
| 10      | 88.3 | 1.0%             | 7.0%   |
| 11      | 87.1 | 3.8%             | 7.8%   |
| 12      | 87.6 | 6.5%             | -0.3%  |
| 13      | 89.3 | 3.6%             | -6.3%  |
| 14      | 86.1 | 4.5%             | -9.1%  |
| 15      | 91.6 | -1.9%            | -3.1%  |
| 16      | 83.8 | -1.5%            | -11.2% |

**4000K ONLY (2K4K)** | Rf: 89.6 | Rg: 99.1

Color Vector Graphic



■ Test ■ Reference

|         |      | GRAPHIC SHIFTS % |       |
|---------|------|------------------|-------|
| HUE BIN | Rf   | CHROMA           | HUE   |
| 1       | 91.3 | -2.5%            | 1.0%  |
| 2       | 95.3 | -0.5%            | 0.5%  |
| 3       | 94.3 | -0.7%            | 1.1%  |
| 4       | 91.1 | -3.4%            | -1.1% |
| 5       | 89.5 | -5.6%            | 0.0%  |
| 6       | 94.6 | -1.4%            | 1.3%  |
| 7       | 93.2 | -3.0%            | 2.6%  |
| 8       | 91.3 | -1.8%            | 4.6%  |
| 9       | 86.5 | -0.9%            | 9.1%  |
| 10      | 83.3 | -0.5%            | 9.5%  |
| 11      | 83.3 | 4.9%             | 9.0%  |
| 12      | 89.7 | 4.1%             | 1.7%  |
| 13      | 90.1 | 3.6%             | -4.3% |
| 14      | 93.4 | 5.2%             | -2.1% |
| 15      | 87.4 | 0.4%             | -4.3% |
| 16      | 86.6 | 0.4%             | -6.1% |

|         |  |              |  |      |  |
|---------|--|--------------|--|------|--|
| PROJECT |  | FIXTURE TYPE |  | DATE |  |
|---------|--|--------------|--|------|--|